# LIMA LOCOMOTIVE WORKS
## INCORPORATED
### LIMA, OHIO, U. S. A.

## CLASS 60-3 GEARED LOCOMOTIVE

## PURCHASING DEPARTMENT

## MATERIAL

Order No. 491 (3336) 1929 Engine Scheduled Out 25 DAYS.
Order No. ______ 19__ " " " ______
Order No. ______ 19__ " " " ______
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Date of Issue APRIL 12 TH 1929.
Date Delivered to Purchasing Dept. April 13th 1929
Date Delivered to Stores Dept. " 15th 1929

ED-193

491
3336

(3336)
491
60-3

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# ADDITIONS AND CHANGES AFTER ISSUE OF BOOK

| ADDITIONS | | | | ADDITIONS | | | | CHANGES | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | PAGE | ITEMS | CHECK | DATE | PAGE | ITEMS | CHECK | DATE | PAGE | ITEMS | CHECK |
| 4-15-29 | 3 | ✓ 57 | Gs | | | | | 4-15-29 | 6 | ✓ 29 | Gs. |
| 4-16-29 | 13 | ✓ 10-11 | " | | | | | " " " | 7 | ✓ 49 | " |
| " " " | 8 | ✓ 20 | " | | | | | 4-16-29 | 13 | ✓ 44 | " |
| " " " | 10 | ✓ 28 | " | | | | | 4-17-29 | 9 | ✓ 22 | " |
| " 17 " | 7 | ✓ 29 | " | | | | | ~~4-30-29~~ | [illegible] | ~~15~~ | |
| " 23 " | 2 | ✓ 59 | " | | | | | | | | |
| " 26 " | 4 | ✓ 22 | " | | | | | | | | |
| " " " | 8 | ✓ 36 | " | | | | | | | | |
| " " " | 8 | ✓ 14 | " | | | | | | | | |

# PLATES

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | DESCRIPTION | SPECIAL MATERIAL SPEC. No. | SPECIAL MATERIAL DATE ACCEPTED | ORDERED FROM | PUR. ORDER No. | PUR. ORDER DATE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 10—Ash Pan** | | | | | | |
| 2 | | | 1 SET | ~~ASH~~ OIL Pan Plates | 10 M.O. 5045 | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | **Group 13—Boiler** | | | | | | |
| 6 | | | 1 SET | Boiler Plates | 13 M.O. 5038-A | A.S.M.E. | | | | |
| 7 | | | | " Gusset Plates | | | | | | |
| 8 | | | | " " " | | | | | | |
| 9 | | | | " " " | | | | | | |
| 10 | | | | " " " | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | **Group 20—Brake Equipment** | | | | | | |
| 14 | | | 1 | Brake Cyl. Bracket | 3/4" x 12" x 55 1/4" | | | | | |
| 15 | | | — | " " " | | | | | | |
| 16 | | | — | " " " | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | **Group 21—Bumpers** | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | **Group 22—Cab** | | | | | | |
| 23 | | | 1 SET | Cab Plates | 22 M.O. 5006-B | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | **Group 23—Cab Details** | | | | | | |
| 27 | | | | Cab Saddle Plate | | | | | | |
| 28 | | | | " Joint " | | | | | | |
| 29 | | | | " Ventilator Plate | | | | | | |
| 30 | | | 1 | " " Cover | #10 x 28" x 30" TANK STEEL | | | | | |
| 31 | | | | | | | | | | |
| 32 | | | | | | | | | | |
| 33 | | | | **Group 32—Cylinder Details** | | | | | | |
| 34 | | | 3 | Cyl. Head Casing | 20 1/4" DIA. } 1/8" SOFT STEEL | | | | | |
| 35 | | | 3 | St. Chest " | 17 3/4" x 21 1/4" | | | | | |
| 36 | | | | | | | | | | |
| 37 | | | | | | | | | | |
| 38 | | | | **Group 36—Dome** | | | | | | |
| 39 | | | 1 | Dome Casing Shell | 32 1/2" x 98" } #10 SOFT STEEL | | | | | |
| 40 | | | 1 | " " Top | 40" DIA. 3/16" " " | | | | | |
| 41 | | | 1 | " " Flow Bowl | 6 1/2" x 45 1/4" #10 " " | | | | | |
| 42 | | | | | | | | | | |
| 43 | | | | | | | | | | |
| 44 | | | | **Group 37—Drawgear** | | | | | | |
| 45 | | | — | Drawgear Shims | | | | | | |
| 46 | | | 2 | " Tie Plate | 3/4" x 12" x 25" TANK STEEL | | | | | |
| 47 | | | ~~2~~ | " BRACE " PLATE | 1/4" x 7 1/4" x 59 1/2" | | | | | |
| 48 | | | — | " Carrier Plate | | | | | | |
| 49 | | | 2 | " " Bolt Liner | 1/2" x 4" x 40" TANK STEEL | | | | | |
| 50 | | | | **Group 48—Frame and Details** | | | | | | |
| 51 | | | 1 | Frame Plate—Right | 1/2" x 35" x 29'-8" } TANK STEEL | | | | | |
| 52 | | | 1 | " " —Left | 1/2" x 35" x 29'-8" | | | | | |
| 53 | | | 1 | " Reinforcing Plate | 1" x 6 1/2" x 10'-8" | | | | | |
| 54 | | | 1 | " " " | 1" x 6 1/2 x 10'-8" | | | | | |
| 55 | | | 1 | " ~~Spreader~~ BRACE | 5/8" x 24" x 60" | | | | | |
| 56 | | | 1 | " " | 5/8" x 16" x 54" | | | | | |
| 57 | | | 1 | " " | 5/8" x 9 1/2" x 54" | | | | | |
| 58 | | | 1 | " " | 5/8" x 9 1/2" x 60" | | | | | |
| 59 | | | | | | | | | | |
| 60 | | | | | | | | | | |

# PLATES

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | DESCRIPTION | SPECIAL MATERIAL | | ORDERED FROM | PUR. ORDER | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SPEC. No. | DATE ACCEPTED | | No. | DATE |
| 1 | | | | **Group 48—Frame & Det. Con't** | | | | | | |
| 2 | | | 1 | Frame Liner Plate | 3/4"x8"x26" TANK STEEL | | | | | |
| 3 | | | 1 | " " " | 1/2"x7"x20" | | | | | |
| 4 | | | 4 | " " " | 3/4"x6"x7" | | | | | |
| 5 | | | 3 | " " " | 3/4x5 1/4"x7" | | | | | |
| 6 | | | — | " " " | | | | | | |
| 7 | | | — | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | 1 | Expansion Plate | 1/2"x15"x59 1/2" TANK STEEL | | | | | |
| 10 | | | 1 | " " | 1/2"x15"x76" | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | **Group 53—Hand Rail & Steps** | | | | | | |
| 13 | | | | Cab Step | | | | | | |
| 14 | | | | " " | | | | | | |
| 15 | | | | " " | | | | | | |
| 16 | | | | " " | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | **Group 54—Headlights** | | | | | | |
| 19 | | | 1 | Headlight Bracket | 5/16"x17 1/2"x26 1/2" TANK STEEL | | | | | |
| 20 | | | 1 | " Shelf | 1/8"x16"x26" | | | | | |
| 21 | | | 1 | | 1/8"x16x26" | | | | | |
| 22 | | | — | Generator Bracket | | | | | | |
| 23 | | | 1 | " Shelf | 1/4"x15"x18" TANK STEEL | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | **Group 57—Lagging & Jacket** | | | | | | |
| 26 | | | 6 | Jacket—Boiler | 30"x60" #22 B.W.G. PICKLED STEEL | | | | | |
| 27 | | | 8 | " — " | 30"x72" | | | | | |
| 28 | | | 2 | " — " | 30x96" | | | | | |
| 29 | | | | " — " | | | | | | |
| 30 | | | | " — " | | | | | | |
| 31 | | | | " Band | | | | | | |
| 32 | | | | " —Cylinder | | | | | | |
| 33 | | | | | | | | | | |
| 34 | | | 1 | Cylinder Hood | #16x38"x118" PICKLED STEEL | | | | | |
| 35 | | | — | " " | | | | | | |
| 36 | | | | | | | | | | |
| 37 | | | | **Group 59—Oil Cups & Lub't'n** | | | | | | |
| 38 | | | — | Oil Can Shelf | | | | | | |
| 39 | | | | | | | | | | |
| 40 | | | | **Group 60—Oil Burner** | | | | | | |
| 41 | | | 1 | Oil Heater Jacket | #16x15"x76" PICKLED STEEL | | | | | |
| 42 | | | — | " Support | | | | | | |
| 43 | | | | | | | | | | |
| 44 | | | | **Group 62—Pilot & Snow Plow** | | | | | | |
| 45 | | | — | Snow Plow | | | | | | |
| 46 | | | — | " " | | | | | | |
| 47 | | | | | | | | | | |
| 48 | | | | **Group 68—Reverse Lever** | | | | | | |
| 49 | | | 1 | Reverse Lever Quad. Plate | 3/8"x21"x26" TANK STEEL | | | | | |
| 50 | | | — | " " " Bracket | | | | | | |
| 51 | | | — | " " " | | | | | | |
| 52 | | | | | | | | | | |
| 53 | | | | **Group 71—Running Boards** | | | | | | |
| 54 | | | — | Running Board | | | | | | |
| 55 | | | 1 | " " Bracket | 1/4"x3 1/4"x26 3/4" TANK STEEL | | | | | |
| 56 | | | 1 | " " " | 1/4"x11 1/4"x31 1/4" | | | | | |
| 57 | | | 1 | " " " | 1/4"x16 3/8"x53 1/2" | | | | | |
| 58 | | | 1 | " " " | 1/4"x16 3/8"x60" | | | | | |
| 59 | | | 1 | " " " | 1/4x14 5/8"x26" TANK STEEL | | | | | |

# PLATES

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|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 73— Sand Box** | | | | | | |
| 2 | | | 1 | Sand Box Top—Front | 45" DIA. — 3/16" SOFT STEEL | | | | | |
| 3 | | | 1 | " " Shell " | 13" x 89½" | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | 2 | Sand Box Plate—Rear | 35" x 70" — #12 TANK STEEL | | | | | |
| 6 | | | 1 | " " " — " | 8½" x 56½" | | | | | |
| 7 | | | 1 | " " " — " | 8½" x 60" | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | 1 | Sand Box Plate—Flue Sander | 30" x 97½" — #10 TANK STEEL | | | | | |
| 10 | | | 2 | " " " — " " | 18" x 40" | | | | | |
| 11 | | | 1 | " " " — " " | 10" x 10" | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | **Group 75—Smoke Box & Stack** | | | | | | |
| 14 | | | 1 | Smoke Box Front | ½" x 47" DIA. — FLANGE STEEL | | | | | |
| 15 | | | 1 | " " Door | 3/8" x 37" " | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | 1 | Deflector Plate | 3/16" x 12" x 39" — TANK STEEL | | | | | |
| 18 | | | 1 | " " | 3/16 x 18½" x 44" | | | | | |
| 19 | | | 1 | " " | ¼" x 18½" x 44" | | | | | |
| 20 | | | 1 | " " | ¼ x 5" x 44 | | | | | |
| 21 | | | 1 | Draft Pipe | 7½ x 38" — #10 TANK STEEL | | | | | |
| 22 | | | 1 | " " | 16" x 38" | | | | | |
| 23 | | | 1 | " " | 12" x 60" | | | | | |
| 24 | | | | " " | | | | | | |
| 25 | | | | **Group 78-St. Ga., S. Val. & Tur.** | | | | | | |
| 26 | | | — | Auxiliary Turret Casing | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | **Group 81—Superheater** | | | | | | |
| 29 | | | | Superheater Damper | | | | | | |
| 30 | | | | " Pipe Jacket | | | | | | |
| 31 | | | | | | | | | | |
| 32 | | | | **Group 83—Tank Engine** | | | | | | |
| 33 | | | 1 | Fuel Bunk Plates | 3/16" x 51" x 101" — TANK STEEL | | | | | |
| 34 | | | 2 | " " " | 3/16 x 24" x 51" | | | | | |
| 35 | | | 2 | " " " | 3/16 x 50" x 56½ TANK STEEL | | | | | |
| 36 | | | | **Group 85—Tender Frame** | | | | | | |
| 37 | | | 2 | Tender Frame Brace Plate | 5/8" x 15½" x 16½" TANK STEEL | | | | | |
| 38 | | | | | | | | | | |
| 39 | | | | | | | | | | |
| 40 | | | | | | | | | | |
| 41 | | | | **Group 88—Tender Tank** | | | | | | |
| 42 | | | 1 SET. | Tank Plates—Water | 88 M.O. 5003 | | | | | |
| 43 | | | 1 | " Funnel | 3/16 x 22½" x 49½" — TANK STEEL | | | | | |
| 44 | | | 1 | " " Cover | 3/8" x 19" DIA. | | | | | |
| 45 | | | 1 SET | " Plates—Oil | 88M05059 | | | | | |
| 46 | | | 2 | " Shoveling Sheet | 3/16 x 27½" x 122" TANK STEEL | | | | | |
| 47 | | | — | " " " | | | | | | |
| 48 | | | 1 | " Oil Funnel | ¼" x 10½" x 59" — TANK STEEL | | | | | |
| 49 | | | 1 | " " " Cover | 3/8" x 23" | | | | | |
| 50 | | | | **Group 91—Throttle & Dry Pipe** | | | | | | |
| 51 | | | — | Throttle Baffle Plate | | | | | | |
| 52 | | | — | " " " | | | | | | |
| 53 | | | | **Group 93—Truck & Details** | | | | | | |
| 54 | | | 6 | Truck Bolster Plate | 3/8" x 11¾ x 68½" — TANK STEEL | | | | | |
| 55 | | | 3 | " " " | 3/8" x 11¾ x 86½" | | | | | |
| 56 | | | 3 | " " " | ¼" x 11¾ x 86½" | | | | | |
| 57 | | | 6 | " " REINFORCING PLATE | 3/8" x 8" x 86½" | | | | | |
| 58 | | | 8 | Truck Gear Cover | 7½" x 24" — 1/8 TANK STEEL | | | | | |
| 59 | | | 16 | " " " | 4" x 10½" | | | | | |

# BARS, SHAPES AND BILLETS

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|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 10—Ash Pan** | | | | | | |
| 2 | | | 15 FT. | Angle | 1/2" x 3" x 3" | | | | | |
| 3 | | | 33 FT. | " | 1/4" x 2" x 2" | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | — | Bar Iron | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | **Group 11—Axle** | | | | | | |
| 8 | | | 6 | Axle Billet | 7 1/2" x 7 1/2" x 700# | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | **Group 14—Boiler Details** | | | | | | |
| 11 | | | — | Angles | | | | | | |
| 12 | | | 1 | Brace Tee | 6" x 1" x 5 1/4" x 1 1/4" - 11'-0" LONG. | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | Crown Bar | | | | | | |
| 15 | | | | " " | | | | | | |
| 16 | | | | " " | | | | | | |
| 17 | | | 1 SET | Stay Bolt Iron | 425 FT. 15/16" DIA. | | | | | |
| 18 | | | 1 " | " " " | 285 FT. 1" " | | | | | |
| 19 | | | 1 " | " " "—Hollow | 150 FT. 1" " HOLLOW | | | | | |
| 20 | | | 1 " | " " " " | 24 FT. 1 1/8" " " | | | | | |
| 21 | | | | **Group 20—Brake Equipment** | | | | | | |
| 22 | P | | 6 | Brake Beam | 9"-25#-63 3/4" LONG | | | | | |
| 23 | | | 1 | " Cyl. Bracket Channel | 12"-30# CHANNEL 55 1/4" LONG. | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | **Group 21—Bumper** | | | | | | |
| 26 | | | 2 | End Timber Channel | 12"-40# CHANNEL 102" LONG. | | | | | |
| 27 | | | | " " " | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | **Group 22 & 23—Cab & Details** | | | | | | |
| 30 | | | 70 FT. | Cab Angle | 2" x 2" x 1/4" | | | | | |
| 31 | | | 16 FT. | " " | 1 1/2" x 1 1/2" x 1/4" | | | | | |
| 32 | | | 25 FT. | " Beading | 1 1/4" x 5/16" HALF OVAL | | | | | |
| 33 | | | 80 FT. | " " | 1" x 1/2" " ROUND | | | | | |
| 34 | | | 1 | " Saddle Angle | 2" x 2" x 1/4" - 4'-6" LONG. | | | | | |
| 35 | | | 2 | DRAWHEAD BRACE (FRONT) | 7"-14 3/4# CHANNEL 64 1/4" LONG. | | | | | |
| 36 | | | | **Group 48—Frame and Details** | | | | | | |
| 37 | | | 1 | Frame—Angle | 1/2" x 6" x 6" - 10 1/2" LONG | | | | | |
| 38 | | | 1 | " " | 5/8" x 3 1/2" x 6" - 12 1/2" " | | | | | |
| 39 | | | 4 | " Body Bolster | 10"-30# [ - 55 1/4" LONG | | | | | |
| 40 | | | — | " Spreader | | | | | | |
| 41 | | | — | " Brace | | | | | | |
| 42 | | | 2 | " Angle TOP | 3/4" x 4" x 6" - 29'-8" | | | | | |
| 43 | | | 2 | " " BOTTOM | 3/4" x 4" x 6" - 31'-0" | | | | | |
| 44 | | | 5 FT. | " " | 5/8" x 3 1/2" x 6" - | | | | | |
| 45 | | | 9 FT. | " " | 5/8" x 6" x 6" | | | | | |
| 46 | | | 16 FT. | " " | 1/2" x 3" x 3" | | | | | |
| 47 | | | 1 | " " | 1/2" x 3" x 5" - 12" LONG. | | | | | |
| 48 | | | 1 | " " | 1/2" x 3 1/2" x 6" - 9 1/2" " | | | | | |
| 49 | | | | | | | | | | |
| 50 | | | | **Group 57—Lagging & Jacket** | | | | | | |
| 51 | | | 16 FT. | Cylinder Hood Angle | 1 1/2" x 1 1/2" x 1/4" | | | | | |
| 52 | | | | | | | | | | |
| 53 | | | | **Group 71—Running Board** | | | | | | |
| 54 | | | | Angle | | | | | | |
| 55 | | | | " | | | | | | |
| 56 | | | | " | | | | | | |
| 57 | | | | Band | | | | | | |
| 58 | | | | | | | | | | |
| 59 | | | | | | | | | | |

# BARS, SHAPES AND BILLETS

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | DESCRIPTION | SPECIAL MATERIAL | | ORDERED FROM | PUR. ORDER | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SPEC. No. | DATE ACCEPTED | | No. | DATE |
| 1 | | | | **Group 72—Rods** | | | | | | |
| 2 | | | 1 | Billet—Rods | 3"x6"x 345# | | | | | |
| 3 | | | 1 | “ — “ Straps | 3½"x 5"x 240# | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | **Group 74—Shafts** | | | | | | |
| 6 | | | 1 | Crank Shaft Billet | 7"x 13"x 1760# | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | 1 | Line Shaft—Front | 82 5/8" x 4 5/16" | | | | | |
| 9 | | | 1 | “ “ —No. 2 | 89"x 4 5/16" | | | | | |
| 10 | | | — | “ “ —No. 3 | | | | | | |
| 11 | | | 1 | “ “ —Rear | 82 7/16" x 4 5/16" | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | **Group 75—Smoke Box & Stack** | | | | | | |
| 14 | | | 7 FT. | Angle—Deflector Plate | 2"x 2"x ¼" | | | | | |
| 15 | | | 10 FT. | “ —Netting | 2"x 2"x ¼" | | | | | |
| 16 | | | | “ —Stack | | | | | | |
| 17 | | | | Stack Ring | | | | | | |
| 18 | | | | “ Beading | | | | | | |
| 19 | | | 1 | ANGLE Deflector Plate | 3"x 2"x ¼"-48" LONG. | | | | | |
| 20 | | | | **Group 83—Tender Tank** | | | | | | |
| 21 | | | 72 FT. | Fuel Bunk Angle | 2"x 2"x ¼" | | | | | |
| 22 | | | 20 FT. | “ “ Beading | 1¼" x 5/16" HALF OVAL | | | | | |
| 23 | | | — | “ “ Bar Iron—Wood Rack | | | | | | |
| 24 | | | | “ “ “ “ — “ “ | | | | | | |
| 25 | | | | **Group 85—Tender Frame** | | | | | | |
| 26 | | | 1 | Frame—Front | 10"-30# EYE BEAM 5'-10" LONG. | | | | | |
| 27 | | | 2 | “ —Sides | 10"-30# " " 10'-11" " | | | | | |
| 28 | | | 2 | “ —Bolster | 10"-25# CHANNEL 5'-10" " | | | | | |
| 29 | | | 2 | “ Brace Channel | 10"-20# " 55 3/8" " | | | | | |
| 30 | | | 2 | “ “ “ | 10"-20# " 55 9/16" " | | | | | |
| 31 | | | 1 | “ Channel—Rear | 10"-20# " 5'-10" " | | | | | |
| 32 | | | 4 FT. | “ Angle | 6"x 6"x ½" | | | | | |
| 33 | | | 2 FT. | “ “ | 5"x 3"x 5/8" | | | | | |
| 34 | | | 3 " | “ “ | 6"x 3½"x ½" | | | | | |
| 35 | | | 3 " | “ “ | 3"x 3"x ½" | | | | | |
| 36 | | | 13 " | “ “ | 3½"x 3½"x ½" | | | | | |
| 37 | | | | | | | | | | |
| 38 | | | | **Group 88—Tank Tender** | | | | | | |
| 39 | | | 125 FT. | Tank Angle—Water | 2"x 2"x ¼" | | | | | |
| 40 | | | | “ “ — “ | | | | | | |
| 41 | | | 36 FT. | “ Beading— “ | 1¼" x 5/16" HALF OVAL | | | | | |
| 42 | | | | “ Bar Iron—Wood Rack | | | | | | |
| 43 | | | 50 FT. | Tank Angle—Oil | 2"x 2"x ¼" | | | | | |
| 44 | | | | “ “ —“ | | | | | | |
| 45 | | | | “ Beading— “ | | | | | | |
| 46 | | | | “ Coal Gate Angle | | | | | | |
| 47 | | | | **Group 93—Truck & Details** | | | | | | |
| 48 | | | 6 | Bolster Channel | 68½" LONG } 9"-25# CHANNEL | | | | | |
| 49 | | | 6 | “ “ | 86½" " | | | | | |
| 50 | | | 6 | “ “ | 68½" " } 6"-15½# CHANNEL | | | | | |
| 51 | | | 3 | “ “ | 88½" " | | | | | |
| 52 | | | 3 | “ “ | 86½" " | | | | | |
| 53 | | | | | | | | | | |
| 54 | | | 6 | Tie Bar | 2"x 4"x 108" LONG. | | | | | |
| 55 | | | 4 | “ “ Angle | ½"x 4"x 4"-74 3/8" LONG. | | | | | |
| 56 | | | 2 | " " " | ½"x 4"x 4"-76 3/8 " | | | | | |
| 57 | | | | **Group 95—Wheels & Tires** | | | | | | |
| 58 | | | 12 | Tire—Section 95 M.O. 5015-A | 32 O. D. 27 I. D. 6" Wide 2½" Thick | | | | | |
| 59 | | | | | | | | | | |

# MISCELLANEOUS DETAILS AND SPECIALTIES

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | DESCRIPTION | SPECIAL MATERIAL SPEC. No. | SPECIAL MATERIAL DATE ACCEPTED | ORDERED FROM | PUR. ORDER No. | PUR. ORDER DATE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 10—Ash Pan** | | | | | | |
| 2 | | | 2 | Hinge—Damper | $3\frac{1}{2}$" x $3\frac{1}{2}$" | | | | | |
| 3 | | | | “ —Cleaning Door | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | **Group 12—Bell** | | | | | | |
| 6 | | | — | Bell | | | | | | |
| 7 | | | 1 | “ Ringer AIR | GOLMAR COMPLETE WITH VALVE | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | **Group 14—Boiler Details** | | | | | | |
| 10 | | | 4 | Flex. Bolts | $28\frac{1}{2}$" x $1\frac{1}{8}$" DIA. TATES STYLE "DJ" | | | | | |
| 11 | | | 4 | “ “ | $27\frac{1}{2}$" x $1\frac{1}{8}$" " | | | | | |
| 12 | | | 4 | “ “ | 26" x $1\frac{1}{8}$" " | | | | | |
| 13 | | | 4 | “ “ | $23\frac{1}{2}$" x $1\frac{1}{8}$" " | | | | | |
| 14 | | | 16 | “ “ Sleeves | TATES STYLE "H" – $2\frac{1}{2}$" LONG. | | | | | |
| 15 | | | | “ “ “ | | | | | | |
| 16 | | | | “ “ “ | | | | | | |
| 17 | | | | “ “ Nuts | | | | | | |
| 18 | | | | “ “ “ | | | | | | |
| 19 | | | 16 | “ “ Caps | TATES STYLE "D" | | | | | |
| 20 | | | | “ “ “ | | | | | | |
| 21 | | | 82 | Tubes | 2" O. D. #12 B.W. Gauge 9 Ft. 0 in. | A.S.M.E. | | | | |
| 22 | | | 10 | Flues CD.142X196 | $5\frac{3}{8}$" O. D. #9 B.W. Gauge 9 Ft. $0\frac{3}{4}$ In. | A.S.M.E. | | | | |
| 23 | | | 82 | Ferrules—Copper | 2" O. D. $\frac{1}{16}$" Thick $\frac{5}{8}$" Wide | | | | | |
| 24 | | | 10 | “ — “ | $4\frac{5}{8}$" O. D. $\frac{1}{16}$" Thick $\frac{5}{8}$" Wide | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | **Group 20—Brake Equipment** | | | | | | |
| 27 | | | 1 SET | Brake—Air | M.D. 2679-E EXCEPT 1-$8\frac{1}{2}$ C.C. PUMP & S.D. 5 GOVERNOR INSTEAD OF 1-$9\frac{1}{2}$ PUMP & SD-4 GOVERNOR | | | | | |
| 28 | | | — | “ —Trans. Air | | | | | | |
| 29 | | | 13 | “ —Shoes | 20-~~499~~ 654 | | | | | |
| 30 | | | | | | | | | | |
| 31 | | | | **Group 21—Bumper** | | | | | | |
| 32 | | | 2 | End Timber | 8" x $12\frac{1}{2}$" x 106" | | | | | |
| 33 | | | 1 | “ “ | $8\frac{1}{2}$" x $15\frac{1}{2}$" x 106" | | | | | |
| 34 | | | 1 | “ “ | $8\frac{1}{2}$" x 12" x 106" | | | | | |
| 35 | | | | | | | | | | |
| 36 | | | | | | | | | | |
| 37 | | | 2 | End Timber Drawhead Blocks | 22" x $11\frac{1}{2}$" x $4\frac{1}{2}$" | | | | | |
| 38 | | | | | | | | | | |
| 39 | | | | **Group 23—Cab Details** | | | | | | |
| 40 | | | — | Curtain | | | | | | |
| 41 | | | 2 | Door Locks | YALE NIGHTLOCK RIM LATCH | | | | | |
| 42 | | | | Hinge—Door | | | | | | |
| 43 | | | | “ —Window | | | | | | |
| 44 | | | | “ —Ventilator | | | | | | |
| 45 | | | 2 | CAB AWNING | TO CD. 232A5035 | | | | | |
| 46 | | | 1 | ~~Seat Cushion~~ CAB WINDOW GLASS-"XX" | 8" x 18" | | | | | |
| 47 | | | 1 | Window Glass "XX" | 8" x 17" | | | | | |
| 48 | | | 3 | “ “ | 12" x 12" | | | | | |
| 49 | | | 2 | " " " | 12" x 24 | | | | | |
| 50 | | | 4 | " " " | $21\frac{1}{2}$" x 25" | | | | | |
| 51 | | | | **Group 26—Cocks & Valves** | | | | | | |
| 52 | | | 1 | Valve—Air Pump | $1\frac{1}{4}$" CRANE #1811 | | | | | |
| 53 | | | + | “ ~~—BELL~~ “ ~~Inter.~~ ~~RINGER~~ | | | | | | |
| 54 | | | 1 | “ — “ “ Drain | $\frac{1}{4}$" AIR COCK | | | | | |
| 55 | | | 1 | “ —Blower AT ST. TURRET | 1" CRANE #1813. ✓ | | | | | |
| 56 | | | 1 | “ —Brake | $\frac{3}{4}$" " #1811 | | | | | |
| 57 | | | 1 | “ — “ Exhaust Drain | $\frac{1}{2}$" GLOBE CRANE #4 | | | | | |
| 58 | | | 1 | “ ~~—Bell Ringer~~ BLOWER AT OIL TURRET | $\frac{3}{4}$" " " #4 ✓ | | | | | |
| 59 | | | 1 | “ —Check Pipe Drain | $\frac{1}{2}$" CRANE GLOBE #4 | | | | | |

# MISCELLANEOUS DETAILS AND SPECIALTIES

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | DESCRIPTION | SPECIAL MATERIAL SPEC. No. | SPECIAL MATERIAL DATE ACCEPTED | ORDERED FROM | PUR. ORDER No. | PUR. ORDER DATE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 26—Cocks & Valves Con't** | | | | | | |
| 2 | | | 1 | Valve—Exhaust Drain | 1/2" CUTOUT COCK | | | | | |
| 3 | | | 1 | " —Fuel Sprinkler | 3/8 CRANE #1801 | | | | | |
| 4 | | | 1 | " — " " Drain | 1/4" AIR COCK | | | | | |
| 5 | | | 1 | " Generator | 1/2" CRANE #1811 | | | | | |
| 6 | | | 2 | " —Injector | 1 1/2" CRANE #1811 & 1 3/4" C.P. UNION | | | | | |
| 7 | | | — | " —Lubricator | | | | | | |
| 8 | | | 1 | " —Siphon | 1 1/2" CRANE #1811 | | | | | |
| 9 | | | 1 | " — " Drain | 3/8" AIR COCK | | | | | |
| 10 | | | 1 | " —Steam Gauge Cock | 1/4" CYL. COCK LEVER HANDLE & 3/8" C.P. UNION | | | | | |
| 11 | | | 1 | " —Water Glass Drain | 1/4" GLOBE | | | | | |
| 12 | | | 1 | " —Steam Chest " | 1/2" " CRANE #4 | | | | | |
| 13 | | | 2 | " —Air Sander | 1/4" " | | | | | |
| 14 | | | 1 | " —Oil Burner ✓ | 1/2" " CRANE #4 | | | | | |
| 15 | | | 1 | " — " Heater ✓ | 1/2" " | | | | | |
| 16 | | | 3 | " — " " Drain | 3/8" AIR COCK ✓ | | | | | |
| 17 | | | 1 | " — " Tank Heater ✓ | 1/2" GLOBE | | | | | |
| 18 | | | 1 | " — " Blow Back ✓ | 1/2" " CRANE #4 | | | | | |
| 19 | | | 1 | " — " ~~Tank~~ PIPE | 1 1/4" " " #4 | | | | | |
| 20 | | | 1 | " ~~Cyl. Cock~~ SMOKE BIX DRAIN | 1/2" CUTOUT COCK | | | | | |
| 21 | | | 1 | Blow-Off Cock | 1 1/2" CRANE | | | | | |
| 22 | | | 6 | Cylinder " | 1/2" CUTOUT COCK WITHOUT HANDLE WESTINGHOUSE #15213 | | | | | |
| 23 | | | 7 | Valve—Oil Tank Water Drain | 1 1/4" GLOBE CRANE #4 | | | | | |
| 24 | | | | **Group 27—Cocks & Val.** { Gauge, Water & Spec. | | | | | | |
| 25 | | | 3 | Gauge Cocks | 3/4" NATHAN TYPE 272A1001 EXCEPT 3/4" P. THD. | | | | | |
| 26 | | | 1 | Valve Drifting | 3/4" CRANE GLOBE #4 | | | | | |
| 27 | | | 1 | Water Gauge | #9 REFLEX | | | | | |
| 28 | | | 2 | " " Cocks | 3/4" NATHAN | | | | | |
| 29 | 0 | | 1 | Valve—House Blower | 3/4" CRANE GLOBE #4 | | | | | |
| 30 | | | | **Group 37—Drawgear** | | | | | | |
| 31 | | | | Draft Gear | | | | | | |
| 32 | | | | | | | | | | |
| 33 | | | | Couplers | Knuckles—Face { SLOTTED SOLID | | | | | |
| 34 | | | | | | | | | | |
| 35 | | | | Coupler Clevis | | | | | | |
| 36 | | | | | | | | | | |
| 37 | | | | Coupler Link | | | | | | |
| 38 | | | | | | | | | | |
| 39 | | | | **Group 44—Exhaust Pipe** | | | | | | |
| 40 | | | 1 | Exhaust Pipe | 6" W.I. PIPE 9'-6" LONG. | | | | | |
| 41 | | | | | | | | | | |
| 42 | | | | **Group 45—Fire Door & Brick** | | | | | | |
| 43 | | | | Fire Door | | | | | | |
| 44 | | | | | | | | | | |
| 45 | | | 450 | Fire Brick | 9" x 4 1/2" x 2 1/2" ARCH LOCK #224 | | | | | |
| 46 | | | 6 | " Clay | SACKS | | | | | |
| 47 | | | | **Group 54—Headlight & Lamps** | | | | | | |
| 48 | | | — | Headlight—Oil | | | | | | |
| 49 | | | 2 | " —Electric | ~~12~~ 14" RD. CASE SUNBEAM ✓ | | | | | |
| 50 | | | | " —Acetylene | | | | | | |
| 51 | | | 1 | " Generator | SUNBEAM TURBO | | | | | |
| 52 | | | | " Switches | | | | | | |
| 53 | | | | | | | | | | |
| 54 | | | 1 SET | Headlight Equipment—Electric | 54 M.O. 5006. | | | | | |
| 55 | | | | | | | | | | |
| 56 | | | 2 | Lamp—Cab | DRESSEL ELECTRIC | | | | | |
| 57 | | | 1 | " —Water Gauge | " " | | | | | |
| 58 | | | — | " —Marker | | | | | | |
| 59 | | | | | | | | | | |

# MISCELLANEOUS DETAILS AND SPECIALTIES

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | DESCRIPTION | SPECIAL MATERIAL | | ORDERED FROM | PUR. ORDER | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SPEC. No. | DATE ACCEPTED | | No. | DATE |
| 1 | | | | **Group 55—Inj. & Feed Water** | | | | | | |
| 2 | | | 1 | Injector—Right #7 NATHAN LIFTING | Connections—Steam 1¾" COPPER | | | | | |
| 3 | | | | LEVER HANDLE MONITOR TYPE 88 | " —Water 1½" IRON | | | | | |
| 4 | | | | | " —Delivery 1½" " | | | | | |
| 5 | | | 1 | Injector—Left #7 NATHAN LIFTING | " —Steam 1¾ COPPER | | | | | |
| 6 | | | | LEVER HANDLE MONITOR TYPE 88 | " —Water 1½" IRON | | | | | |
| 7 | | | | | " —Delivery 1½" " | | | | | |
| 8 | | | — | Feed Water Strainers | | | | | | |
| 9 | | | — | Inj. Check Valve | 1½" SWING FOR 200# PRESSURE | | | | | |
| 10 | | | 2 | " " " Flange & STOP | 1½" NATHAN TYPE 280-A TO NATHAN CO. 696 | | | | | |
| 11 | | | — | " Stop " | 552D5010 | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | **Group 57—Lagging & Jacket** | | | | | | |
| 14 | ✓ | | 1 SET | Lagging—Boiler | 57M.O.5029 | | | | | |
| 15 | | | — | " " | | | | | | |
| 16 | | | — | " " | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | **Group 59—Lubrication** | | | | | | |
| 19 | | | 3 | Oil Cup—Crosshead Pin | #3 SPRING TOP | | | | | |
| 20 | ✓ | | 6 | " " — " Guide | #1 HANCOCK | | | | | |
| 21 | | | | " " —Crank Pin | | | | | | |
| 22 | | | | " " — " Bearer | | | | | | |
| 23 | | | 1 | Oil | SAMPLE CAN | | | | | |
| 24 | | | | Grease Cup—Bottom Bracket | | | | | | |
| 25 | | | 1 | Grease | SAMPLE CAN | | | | | |
| 26 | | | 1 | Lubricator—Cylinder | NATHAN 5 FEED 5 PINT 1918 TYPE COMPLETE WITH ST. VALVE | | | | | |
| 27 | | | | " —Air Pump | | | | | | |
| 28 | | | 1 | Oil Pump | MANZEL 3 FEED 4 PINT LEFT HAND RATCHET DRIVE REAR DISCHARGE PAINTED BLACK | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | 1 | **Group 60—Oil Burner** | 2" VON BODEN | | | | | |
| 31 | | | | | | | | | | |
| 32 | | | | **Group 62—Pilot & Snow Plow** | | | | | | |
| 33 | | | | | | | | | | |
| 34 | | | | **Group 63—Pipe Fittings** | | | | | | |
| 35 | | | — | Fire Extinguisher | | | | | | |
| 36 | ✓ | | 1 | AIR PUMP EXHAUST DRAIN | 3½" x 32" x ⅛" STEEL TUBING | | | | | |
| 37 | | | — | Hose—Fire | | | | | | |
| 38 | | | 2 | " —Sander, Hand | 1⅝" x 48" WIRE BOUND | | | | | |
| 39 | | | — | " — " , " | | | | | | |
| 40 | | | 4 | " — " , Air | 1" x 32" WIRE BOUND | | | | | |
| 41 | | | 1 | " —Siphon | 4" x 16'-0" ENLARGED ENDS TO CO. 822A5032 | | | | | |
| 42 | | | 1 | " —Sprinkler | ½" x 6'-0" FOR VALVE #1801 2 PLY. | | | | | |
| 43 | | | 2 | " —Tank Connection | 2" x 60" WIRED SUCTION 2" I.D. SOFT ENDS.<br>Sent 1-2" Dia. x 54"- 11-25-1946-H.C.H. | | | | | |
| 44 | | | | | | | | | | |
| 45 | | | — | Pipe—Copper Branch | O. D. Thick Long | | | | | |
| 46 | | | 3 | " — " Tallow | ½" O. D. .083 Thick 21'-0" Long | | | | | |
| 47 | | | 1 | " — " Inj. Steam | 1¾" O. D. .120 Thick 6'-6" Long | | | | | |
| 48 | | | 1 | " — " Lub. " | 1" O. D. .109" Thick 5'-0" Long | | | | | |
| 49 | | | 1 | " — " Steam Gauge | ⅜" O. D. .065 Thick 3'-0" Long | | | | | |
| 50 | | | | " — " Air " | O. D. Thick Long | | | | | |
| 51 | | | 1 | " —Dry | 4½" I.D. 5" O.D. 6'-0" LONG. | | | | | |
| 52 | | | 1 | " —Steam | 4" I.D. 4½" O.D. 8'-6" " | | | | | |
| 53 | | | | | | | | | | |
| 54 | | | | **Group 65—Piston & Rod** | | | | | | |
| 55 | | | 9 SET | Piston Rod Packing | 652A5153 (PAXTON & MITCHELL FOR SUPERHEATED STEAM) | | | | | |
| 56 | | | 3 | " " " Spring | #3 | | | | | |
| 57 | | | 13 | WASHOUT PLUGS | PRIME TO REPLACE CO 662A5007 | | | | | |
| 58 | | | | **Group 71—Running Boards** | | | | | | |
| 59 | | | | Running Boards | | | | | | |

# MISCELLANEOUS DETAILS AND SPECIALTIES

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | DESCRIPTION | SPECIAL MATERIAL | | ORDERED FROM | PUR. ORDER | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SPEC. No. | DATE ACCEPTED | | No. | DATE |
| 1 | | | | **Group 73—Sand Box** | | | | | | |
| 2 | | | — | Sanders—Air | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | 1 | Flue Sander Funnel | 732 A 5033 | | | | | |
| 5 | | | 1 | " " Scoop | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | **Group 74—Shafts** | | | | | | |
| 8 | | | | Gear Rim—Cut Teeth | | | | | | |
| 9 | | | | Pinion — " " | | | | | | |
| 10 | | | | " — " " | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | **Group 75—Smoke Box & Stack** | | | | | | |
| 13 | | | | Smoke Box Netting | | | | | | |
| 14 | | | | " " " | | | | | | |
| 15 | | | | " " " | | | | | | |
| 16 | | | | Stack Netting | | | | | | |
| 17 | | | | " " | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | **Group 76—Springs** | | | | | | |
| 20 | | | — | Springs—Draft Gear | | | | | | |
| 21 | | | — | " —Truck Box | | | | | | |
| 22 | | | 60 | " — " Bolster | 762A 5003 | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | **Group 78—St. Ga., S. Val. & Tur.** | | | | | | |
| 25 | | | 1 | Steam Gauge | 5½" ASHCROFT BRASS RING | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | 2 | Safety Valve CONSOLIDATED FORM "H" TYPE "FH" | Size 2" Open Set At 200# | | | | | |
| 28 | | | — | " " | " ~~Muffled:~~ ~~Set At~~ | | | | | |
| 29 | | | — | " " | Connections, Male, ~~Female~~ | | | | | |
| 30 | | | | | | | | | | |
| 31 | | | | **Group 81—Superheater** | | | | | | |
| 32 | | | 1 SET | Superheater Header M.O. | 81 MO 5009-A | | | | | |
| 33 | | | | " Tubes | | | | | | |
| 34 | | | | " Bands | | | | | | |
| 35 | | | | " Supports | | | | | | |
| 36 | | | | " Damper Cyl. | | | | | | |
| 37 | | | | | | | | | | |
| 38 | | | | **Group 82—Tank Valves** | | | | | | |
| 39 | | | ~~1~~ | Tank Cock | ~~1½" STOP COCK~~ | | | | | |
| 40 | | | — | " Coal Gate Hinge | | | | | | |
| 41 | | | | **Group 92—Tools** | | | | | | |
| 42 | | | — | Equipment Sheet | | | | | | |
| 43 | | | 1 SET | Wrench List | 92 M.O. 5009-B | | | | | |
| 44 | | | — | Wrecking Frogs | | | | | | |
| 45 | | | | | | | | | | |
| 46 | | | | **Group 94—Valves** | | | | | | |
| 47 | | | 2 LBS. | Valve Stem Packing | VULCABESTON C.C. PACKING DIA. VALVE STEM | | | | | |
| 48 | | | | " " " Spring | 1 3/16, I.D. OF STUFFING BOX 2¼" FOR SUPERHEATED STEAM. (JOHNS PRATT CO.) | | | | | |
| 49 | | | | | | | | | | |
| 50 | | | 3 | Valve Plate Spring | 762 A 5009 | | | | | |
| 51 | | | — | Valve—Piston | | | | | | |
| 52 | | | — | Valve—Balance Slide | | | | | | |
| 53 | | | | | | | | | | |
| 54 | | | | **Group 95—Wheels & Tires** | | | | | | |
| 55 | | | — | Wheels—Chilled | | | | | | |
| 56 | | | | | | | | | | |
| 57 | | | | **Group 96—Whistle** | | | | | | |
| 58 | | | 1 | Whistle | 5" C.I. CHIME | | | | | |
| 59 | | | | | | | | | | |

# ANNEALED STEEL CASTINGS

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | PATTERN NUMBER | PATTERN CHECK | PUR. ORDER No. | PUR. ORDER DATE |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 10—Ash Pan** | | | | |
| 2 | | | — | Ash Pan Hoppers | | | | |
| 3 | | | — | " " Slides | | | | |
| 4 | | | | | | | | |
| 5 | | | | **Group 12—Bell** | | | | |
| 6 | | | 1 | Bell Tongue | 12-2 ✓ | | | |
| 7 | | | — | " Crank | | | | |
| 8 | | | | **Group 14—Boiler Details** | | | | |
| 9 | | | | Boiler Brace Roof Tees | | | | |
| 10 | | | | " " Crown " | | | | |
| 11 | | | | " Crown Bar Lugs | | | | |
| 12 | | | 1 | Mud Ring | 14-161 ✓ | | | |
| 13 | | | | | | | | |
| 14 | | | | **Group 18—Brackets** | | | | |
| 15 | | | 1 | Bracket, Bottom | 18-3 ✓ | | | |
| 16 | | | 4 | " Crank Box Caps | 18-32 ✓ | | | |
| 17 | | | | " Pad, Steam Bracket | | | | |
| 18 | | | | | | | | |
| 19 | | | | **Group 20—Brake Equipment** | | | | |
| 20 | | | 1 | Brake—Air Pump Bracket | 20-614 ✓ | | | |
| 21 | | | — | " Beam | | | | |
| 22 | | | 6 | " " Fulcrum | 20-87 ✓ | | | |
| 23 | | | 12 | " Hanger Lugs | 20-632 ✓ | | | |
| 24 | | | 12 | " Heads | 20-22 ✓ | | | |
| 25 | | | 3 | " Lever Fulcrum | 20-625 ✓ | | | |
| 26 | | | — | " Rod Jaw | | | | |
| 27 | | | 2 | " Reservoir Bracket | 20-111 ✓ | | | |
| 28 | 0 | | 1 | " Valve Bracket | 20-859 | | | |
| 29 | | | | " Strut | | | | |
| 30 | | | | " " | | | | |
| 31 | | | | | | | | |
| 32 | | | | **Group 21—Bumper** | | | | |
| 33 | | | | Bumper—Front | | | | |
| 34 | | | | " —Rear | | | | |
| 35 | | | | | | | | |
| 36 | | | | **Group 30—Crosshead** | | | | |
| 37 | | | 3 | Crosshead | 30-5 ✓ | | | |
| 38 | | | | | | | | |
| 39 | | | | **Group 31—Cylinder** | | | | |
| 40 | | | 3 | Cylinder Frame, Right | 31-56 ✓ | | | |
| 41 | | | — | " " , Left | | | | |
| 42 | | | — | " " , Support | | | | |
| 43 | | | | **Group 37—Drawgear** | | | | |
| 44 | | | | Draft Gear Frame, Right Front | | | | |
| 45 | | | | " " " , Left " | | | | |
| 46 | | | | Draft Gear Frame, Right Rear | | | | |
| 47 | | | | " " " , Left " | | | | |
| 48 | | | | " " Friction Plates | | | | |
| 49 | | | | " " Sliding Bar, Right | | | | |
| 50 | | | | " " Sliding Bar, Left | | | | |
| 51 | | | | " " Connecting Bar, Front | | | | |
| 52 | | | | " " Connecting Bar, Rear | | | | |
| 53 | | | | " " Yoke Blocks | | | | |
| 54 | | | | | | | | |
| 55 | | | 2 | Couplers | 37-2 ✓ | | | |
| 56 | | | 2 | " Knuckles Solid 16" | 37-10 ✓ | | | |
| 57 | | | 1 | " Knuckles Slotted 16" | 37-6 ✓ | | | |
| 58 | | | 2 | " Lock | 37-12 ✓ | | | |
| 59 | | | 2 | " " Lifter | 37-13 ✓ | | | |

# ANNEALED STEEL CASTINGS

| | CHECK COLUMN | DATE ADDED INFORMATION DRAFT ROOM | NUMBER REQUIRED | NAME OF DETAIL | PATTERN NUMBER | PATTERN CHECK | PUR. ORDER No. | PUR. ORDER DATE |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 37—Drawgear Con't** | | | | |
| 2 | | | 2 | Drawheads | 37-1 | ✓ | | |
| 3 | | | — | " Carrier Links | | | | |
| 4 | | | — | " Guides | | | | |
| 5 | | | | | | | | |
| 6 | | | — | Brace Foot, Bolster | 37-73 | | | |
| 7 | | | — | " ", Drawhead | 37-74 | | | |
| 8 | | | | | | | | |
| 9 | | | — | Shakle Bar Pocket, Eng. Frame | | | | |
| 10 | | | — | " " ", Tender Frame | | | | |
| 11 | | | 1 | " " Brace Foot | 37-79 | ✓ | | |
| 12 | | | | | | | | |
| 13 | | | | **Group 39—Eccentrics** | | | | |
| 14 | | | — | Eccentric Strap—Top Half | | | | |
| 15 | | | — | " " —Bottom Half | | | | |
| 16 | | | | | | | | |
| 17 | | | | **Group 44—Exhaust Pipe** | | | | |
| 18 | | | — | Exhaust Pipe Gland | | | | |
| 19 | | | — | " " Elbow | | | | |
| 20 | | | | **Group 48—Frame & Details** | | | | |
| 21 | | | | Boiler Side Pad | | | | |
| 22 | | | | " " " | | | | |
| 23 | | | | Brace—Frame | | | | |
| 24 | | | 2 | " —Front End Timber | 48-22 | ✓ | | |
| 25 | | | — | " —Rear " " | | | | |
| 26 | | | | | | | | |
| 27 | | | 2 | Center Plate | 48-656 | ✓ | | |
| 28 | | | | | | | | |
| 29 | | | — | Deck Plate | | | | |
| 30 | | | | | | | | |
| 31 | | | 1 | End Casting | 48-186-C | ✓ | | |
| 32 | | | | | | | | |
| 33 | | | — | Expansion Plate Bracket | | | | |
| 34 | | | | | | | | |
| 35 | | | 1 | Furnace Bearer—Front | 48-695 | ✓ | | |
| 36 | | | 1 | " " —Rear | 48-696 | ✓ | | |
| 37 | | | 2 | " " —Fill Blocks | 48-693 | ✓ | | |
| 38 | | | 2 | " ~~Side Bearing~~ " SUPPORT | 48-694 | ✓ | | |
| 39 | | | | | | | | |
| 40 | | | | Truss Pads—Right | | | | |
| 41 | | | | " " —Left | | | | |
| 42 | | | | " Rod Saddle | | | | |
| 43 | | | | | | | | |
| 44 | | | | **Group 58—Link Motion** | | | | |
| 45 | | | 3 | Link | 58-1 | ✓ | | |
| 46 | | | — | " Hanger Fulcrum | | | | |
| 47 | | | | | | | | |
| 48 | | | | **Group 66—Plugs** | | | | |
| 49 | | | — | Washout Plug Cap | | | | |
| 50 | | | | | | | | |
| 51 | | | | **Group 68—Reverse Lever** | | | | |
| 52 | | | — | Reverse Lever Arm | | | | |
| 53 | | | — | " " Fulcrum Bracket | | | | |
| 54 | | | | | | | | |
| 55 | | | — | Quadrant Bracket | | | | |
| 56 | | | | | | | | |
| 57 | | | | **Group 71—Running Boards** | | | | |
| 58 | | | — | Running Board Bracket | | | | |
| 59 | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 74—Shafts** | | | | |
| 2 | | | 2 | Coupling Ring No. 1—Whole | 74-16 | ✓ | | |
| 3 | | | 2 | “ “ No. 1—Halves | 74-17 | ✓ | | |
| 4 | | | 2 | “ “ No. 2—Whole | 74-16 | ✓ | | |
| 5 | | | 2 | “ “ No. 2—Halves | 74-17 | ✓ | | |
| 6 | | | 2 | “ “ No. 3—Whole | 74-16 | ✓ | | |
| 7 | | | 2 | “ “ No. 3—Halves | 74-17 | ✓ | | |
| 8 | | | — | “ “ No. 4—Whole | | | | |
| 9 | | | — | “ “ No. 4—Halves | | | | |
| 10 | | | 1 | “ Sleeve No. 1 | 316<br>74-317 | | | |
| 11 | | | 1 | “ “ No. 2 | 74-317 | | | |
| 12 | | | 1 | “ “ No. 3 | 74-316 | | | |
| 13 | | | | “ “ No. 4 | | | | |
| 14 | | | | “ Square Shaft No. 1 | | | | |
| 15 | | | | “ “ “ No. 2 | | | | |
| 16 | | | | “ “ “ No. 3 | | | | |
| 17 | | | | “ “ “ No. 4 | | | | |
| 18 | | | | | | | | |
| 19 | | | 2 | Collars—Line Shaft No. 1—Core | 74-342 | ✓ | | |
| 20 | | | 2 | “ — “ “ No. 1— “ | 74-360 | ✓ | | |
| 21 | | | 2 | “ — “ “ No. 2— “ | 74-342 | ✓ | | |
| 22 | | | 2 | “ — “ “ No. 2— “ | 74-360 | ✓ | | |
| 23 | | | 2 | “ — “ “ No. 3— “ | 74-342 | ✓ | | |
| 24 | | | 1 | “ — “ “ No. 3— “ | 74-360 | ✓ | | |
| 25 | | | — | “ — “ “ No. 4— “ | | | | |
| 26 | | | — | “ — “ “ No. 4— “ | | | | |
| 27 | | | 1 | “ — “ “ Rear — “ | 74-334 | ✓ | | |
| 28 | | | | | | | | |
| 29 | | | | COUPLINGS | | | | |
| 30 | | | 1 | Crank—Front Str. Taper Core | 74-27 | ✓ | | |
| 31 | | | 1 | “ —Rear Str. Taper “ | 74-27 | ✓ | | |
| 32 | | | 1 | Line Shaft—Front “ | 74-489 | ✓ | | |
| 33 | | | 1 | “ “ No. 2—Front “ | 74-489 | ✓ | | |
| 34 | | | 1 | “ “ No. 2—Rear “ | 74-489 | ✓ | | |
| 35 | | | — | “ “ No. 3—Front “ | | | | |
| 36 | | | — | “ “ No. 3—Rear “ | | | | |
| 37 | | | 1 | “ “ Rear “ | 74-489 | ✓ | | |
| 38 | | | | | | | | |
| 39 | | | 6 | Gear Rims { H.C. Steel to Lima Specification L-2 | 74-203-A | ✓ | | |
| 40 | | | | | | | | |
| 41 | | | 6 | Pinions Core { H.C. Steel to Lima Specification L-2 | 74-204-A | ✓ | | |
| 42 | | | | “ “ { H.C. Steel to Lima Specification L-2 | | | | |
| 43 | | | | “ “ { H.C. Steel to Lima Specification L-2 | | | | |
| 44 | | | | | | | | |
| 45 | | | | **Group 75—Smoke Box & Stack** | | | | |
| 46 | | | 2 | Smoke Box Brace Pad | 75-10 | ✓ | | |
| 47 | | | 1<br>1 | “ “ DOOR HINGE LUG | 75-26<br>75-26 | ✓ | | |
| 48 | | | | **Group 78—St. Ga., S. Val. & Tur.** | | | | |
| 49 | | | — | Safety Valve Turret | | | | |
| 50 | | | | | | | | |
| 51 | | | | **Group 79—Steam Pipes** | | | | |
| 52 | | | — | Steam Pipe | | | | |
| 53 | | | | “ “ Elbow | | | | |
| 54 | | | | **Group 85—Tender Frame** | | | | |
| 55 | | | 1 | Center Plate | 48-656 | ✓ | | |
| 56 | | | | | | | | |
| 57 | | | 1 | End Casting | 85-20 | ✓ | | |
| 58 | | | 2 | “ Timber Brace | 48-22 | ✓ | | |
| 59 | | | — | Side Bearing | | | | |

# ANNEALED STEEL CASTINGS

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|---|---|---|---|---|---|---|---|---|
| 1 | | | | **Group 88—Tender Tank** | | | | |
| 2 | | | — | Tank Lug | | | | |
| 3 | | | | | | | | |
| 4 | | | | **Group 91—Throttle** | | | | |
| 5 | | | 1 | Throttle Lever Quadrant | 91-21 ✓ | | | |
| 6 | | | | | | | | |
| 7 | | | | **Group 92—Tools** | | | | |
| 8 | | | — | Swab Cup Wrench | | | | |
| 9 | | | | | | | | |
| 10 | 0 | | 1 | Wrecking Frog—Inside | 92-9 | | | |
| 11 | 0 | | 1 | “ “ —Outside | 92-10 | | | |
| 12 | | | | | | | | |
| 13 | | | | **Group 93—Truck & Details** | | | | |
| 14 | | | — | Bolster End Casting—Right | | | | |
| 15 | | | — | “ “ “ —Left | | | | |
| 16 | | | 6 | “ Guides | 93-163 ✓ | | | |
| 17 | | | | | | | | |
| 18 | | | 3 | Center Plate | 93-133 ✓ | | | |
| 19 | | | | | | | | |
| 20 | | | — | Side Bearings | | | | |
| 21 | | | | | | | | |
| 22 | | | — | Truck Column—Right | | | | |
| 23 | | | | “ “ —Left | | | | |
| 24 | | | | | | | | |
| 25 | | | | Truck Cross Tie Bar | | | | |
| 26 | | | | “ “ “ “ | | | | |
| 27 | | | | “ “ “ “ | | | | |
| 28 | | | | | | | | |
| 29 | | | 3 | Truck Frame—Right | 93-678 ✓ | | | |
| 30 | | | 3 | “ “ —Left | 93-681 ✓ | | | |
| 31 | | | — | “ “ Splice | | | | |
| 32 | | | | | | | | |
| 33 | | | 2 | Truck Box—Right Front Truck | 93-682 ✓ | | | |
| 34 | | | 2 | “ “ — “ No. 2 “ | 93-682 ✓ | | | |
| 35 | | | — | “ “ — “ No. 3 “ | | | | |
| 36 | | | 2 | “ “ — “ Rear “ | 93-682 ✓ | | | |
| 37 | | | | “ “ Cap—Right Front Truck | | | | |
| 38 | | | | “ “ “ — “ No. 2 “ | | | | |
| 39 | | | | “ “ “ — “ No. 3 “ | | | | |
| 40 | | | | “ “ “ — “ Rear “ | | | | |
| 41 | | | | | | | | |
| 42 | | | 6 | Truck Pedestal | 93-674 ✓ | | | |
| 43 | | | — | “ “ Cap | | | | |
| 44 | | | 6 | “ “ Inside Box | 93-676A | | | |
| 45 | | | | | | | | |
| 46 | | | — | Journal Box Wedge | | | | |
| 47 | | | | | | | | |
| 48 | | | | **Group 94—Valves** | | | | |
| 49 | | | — | Valve Stem Crosshead | | | | |
| 50 | | | | | | | | |
| 51 | | | | **Group 95—Wheels & Tires** | | | | |
| 52 | | | — | Wheel Center | | | | |
| 53 | | | | | | | | |
| 54 | | | | **Group 96—Whistle & Rigging** | | | | |
| 55 | | | — | Whistle Lever | | | | |
| 56 | | | | | | | | |
| 57 | | | | | | | | |
| 58 | | | | | | | | |
| 59 | | | | | | | | |

# MALLEABLE CASTINGS

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|---|---|---|---|---|---|---|---|---|
| | | | | | | | No. | DATE |
| 1 | | | | **Group 10—Ash Pan** | | | | |
| 2 | | | | | | | | |
| 3 | | | | **Group 12—Bell** | | | | |
| 4 | | | — | Bell Crank | — | | | |
| 5 | | | — | " Tongue | — | | | |
| 6 | | | | | | | | |
| 7 | | | | **Group 18—Brackets** | | | | |
| 8 | | | | | | | | |
| 9 | | | | **Group 20—Brake Equipment** | | | | |
| 10 | | | — | Brake Heads | — | | | |
| 11 | | | — | " Valve Handle | — | | | |
| 12 | | | | | | | | |
| 13 | | | | **Group 23—Cab Details** | | | | |
| 14 | | | — | Cab Window Clamp Screw | | | | |
| 15 | | | | " Storm Window Rod Bracket | | | | |
| 16 | | | | " Ventilator Clamp | | | | |
| 17 | | | | " " " | | | | |
| 18 | | | | " " " Brackets | | | | |
| 19 | | | | " " " Handle | | | | |
| 20 | | | | " " " Rod Bracket | | | | |
| 21 | | | — | " " Lift Handle | | | | |
| 22 | | | | | | | | |
| 23 | | | | **Group 26—Cocks & Valves** | | | | |
| 24 | | | — | Cylinder Cock Body | | | | |
| 25 | | | | " " Cap | | | | |
| 26 | | | — | " " Lever | | | | |
| 27 | | | | | | | | |
| 28 | | | — | Oil Cock Body | | | | |
| 29 | | | | " " Cap | | | | |
| 30 | | | — | " " Plug | | | | |
| 31 | | | | | | | | |
| 32 | | | | **Group 27—Cocks & Val. (Gauge, Water and Spec.)** | | | | |
| 33 | | | — | Gauge Cock Handle | | | | |
| 34 | | | | | | | | |
| 35 | | | | **Group 28—Cock Rigging** | | | | |
| 36 | | | — | Cylinder Cock Rod Lever | | | | |
| 37 | | | | | | | | |
| 38 | | | | **Group 37—Drawgear** | | | | |
| 39 | | | — | Coupler Clevis | | | | |
| 40 | | | — | " Link | | | | |
| 41 | | | | | | | | |
| 42 | | | — | Uncoupling Shaft Bracket | | | | |
| 43 | | | | | | | | |
| 44 | | | | **Group 53—Hand Rail & Steps** | | | | |
| 45 | | | — | Handrail Bracket | | | | |
| 46 | | | — | " Bumper Post | | | | |
| 47 | | | | | | | | |
| 48 | | | — | End Timber Handle Bracket | | | | |
| 49 | | | | | | | | |
| 50 | | | | **Group 54—Headlight & Lamps** | | | | |
| 51 | | | — | Marker Lamp Bracket | | | | |
| 52 | | | | | | | | |
| 53 | | | | **Group 55—Inj. & Feed Water** | | | | |
| 54 | | | — | Hose Connection | | | | |
| 55 | | | | " " Nuts | | | | |
| 56 | | | | " " " | | | | |
| 57 | | | — | " " Nipple | | | | |
| 58 | | | | | | | | |
| 59 | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| | | | | | | | No. | DATE |
| 1 | | | | **Group 57—Lagging & Jacket** | | | | |
| 2 | | | 36 | Jacket Band Lugs | 57-28 | | | |
| 3 | | | | | | | | |
| 4 | | | 5 | Washout Plug Casing | 57-4 | | | |
| 5 | | | | | | | | |
| 6 | | | | **Group 59—Lubrication** | | | | |
| 7 | | | — | Grease Cup | | | | |
| 8 | | | | | | | | |
| 9 | | | — | Oil Cup | | | | |
| 10 | | | | | | | | |
| 11 | | | — | Oil Cup Base | | | | |
| 12 | | | | | | | | |
| 13 | | | | **Group 63—Pipe Fittings** | | | | |
| 14 | | | — | Blower Pipe Elbow | | | | |
| 15 | | | — | " " Flange | | | | |
| 16 | | | | | | | | |
| 17 | | | | **Group 68—Reverse Lever** | | | | |
| 18 | | | — | Reverse Lever Latch Handle | | | | |
| 19 | | | — | " " " Guide | | | | |
| 20 | | | | | | | | |
| 21 | | | | **Group 73—Sand Box** | | | | |
| 22 | | | — | Sand Box Lever | | | | |
| 23 | | | | | | | | |
| 24 | | | | **Group 75—Smoke Box & Stack** | | | | |
| 25 | | | | Smoke Box Door Buttons | | | | |
| 26 | | | | " " " Hinge | | | | |
| 27 | | | | " " " " | | | | |
| 28 | | | | | | | | |
| 29 | | | | **Group 78—St. Ga., S. Val. & Tur.** | | | | |
| 30 | | | — | Turret Valve Handle | | | | |
| 31 | | | | | | | | |
| 32 | | | | **Group 82—Tank Valve** | | | | |
| 33 | | | | Tank Cock Body | | | | |
| 34 | | | | " " Cap | | | | |
| 35 | | | | " " Plug | | | | |
| 36 | | | | | | | | |
| 37 | | | | **Group 91—Throttle & Dry Pipe** | | | | |
| 38 | | | | Throttle Lever Latch Handle | | | | |
| 39 | | | | " " " Guide | | | | |
| 40 | | | | " " Quadrant | | | | |
| 41 | | | | | | | | |
| 42 | | | | **Group 92—Tools** | | | | |
| 43 | | | | | | | | |
| 44 | | | | **Group 93—Truck & Details** | | | | |
| 45 | | | | | | | | |
| 46 | | | | **Group 96—Whistle** | | | | |
| 47 | | | — | Whistle Lever | | | | |
| 48 | | | | | | | | |
| 49 | | | | | | | | |
| 50 | | | | | | | | |
| 51 | | | | | | | | |
| 52 | | | | | | | | |
| 53 | | | | | | | | |
| 54 | | | | | | | | |
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| 58 | | | | | | | | |
| 59 | | | | | | | | |

THE FOLLOWING RECORD TO BE MADE FOR EACH
SHAY LOCOMOTIVE AND SENT TO SHAY DRAWING ROOM - MAIL NO.70

***************

Order No. 491 Engine No. 3336 Class 60-3

Lubricator, - Make Nathan Style 5 FEED. 5 PINT No. Manzel Pump. 3 feed 4 pint ✓

Injector - Make, Size and Type, Right #7 Nathan Monitor T. 88" ✓ Left #7 Nathan Monitor T88

Steam Gauge - Make Ashcroft ✓ Size 5½" ✓

Steam Valve to Lubricator - Make Nathan Size 1" Style Angle

" " " Blower - Make Crane ✓ Size 1" ✓ Style 1813 ✓

" " " Injector- Make Crane ✓ Size 1½" ✓ Style 1811 ✓

" " " Air Pump -Make Crane ✓ Size 1¼" ✓ Style 1811 ✓

" " " Steam brake - Make Crane ✓ Size ¾ ✓ Style 1811 ✓

" " " Generator - Make Crane ✓ Size ½" ✓ Style 1811 ✓

" " " Syphon - Make Crane ✓ Size 1½ ✓ Style 1811 ✓

Blow Off Cock - Make Crane ✓ Size 1½" ✓

Tumbling Shaft ball, coupling center 15¾"

Link pin collar thickness, Rear 9/32 Center 5/32 Front 9/32

| | Rear Cyl. | Center Cyl. | Front Cyl. |
|---|---|---|---|
| Valve travel in full gear, Forward Motion | 2 23/32" | 2 23/32" | 2 11/16" |
| Backward " | 2¾" | 2¾" | 2¾" |
| Lead in Full Gear ( Forward " | 3/64" | 1/16" | 1/16" |
| Lead in Full Gear ( Backward " | 1/16" | 1/32" | 3/64 |

M.O.H. 5/21/29 per H H DELL.

Feed pipe hose, size & length 2" X ~~45~~ 54" Right & Left

Size & length of oil pipe to cylinders, Rear ½" X 7'4" Center ½" X 7'4" Front ½" X 9'5"

Size & length of oil pipe ot steam chest, Rear 3/8" X 2'11" Center 3/8" X 5'3" Front 3/8" X 7'3"

Size & length of oil pipe to air pump ½" X 35"

Size & length of oil pipe to steam brake ½" X 28"

Size & length of injector steam pipe, Right 1¾" X 37" Left 1¾" X 37"

Size & length of injector delivery pipe (when copper only) Right iron Left iron

Size & length of steam gauge steam pipe 3/8" X 48"

Size & length of lubricator steam pipe 1" X 36"

Size & length of pipe from main reservoir to air gauge 3/8" X 31"

Size & length of pipe from equalizing reservoir to air gauge 3/8" X 41"

Size & length of pipe from brake valve to air gauge 3/8" X 48"

Size & length of pipe from brake cylinder to air gauge 3/8" X 5'8"

Size & length of pipe from main reservoir to governor 3/8 X 9'2"

Size & length of pipe from brake valve to governor 3/8" X 7'3

Size & length of pipe from auto. brake valve to tee ½" X 9"

Size & length of pipe from independent brake valve to tee ½" X 10"

Size & length of pipe from tee to distributing valve ½" X 82"

Size & length of release pipe from independent brake valve to tee ½" X 94"

Size & length of pipe between brake valves ½" X 18"

Size & length of exhaust pipe 6" X 7'8¼"

Size & length of exhaust pipe nipple 6" X 17½"

Size & length of lubricator drain 3/8" X 30

Sand Hose - Front ( Hand 15/8" X 48" R & L
( Air 1" X 32" R & L
" " Rear ( Hand
( Air 1" X 32" R & L

Signed Herman H. Dell

Date May 15-29

Superheater 5/8" X 48"